FilmL.A., Inc.
6255 W Sunset Blvd, 12th Floor
Hollywood, CA 90028
t: (213)977-8600 - f: (213)977-8601
www.filmla.com

Summary Information

Permit No: F00159558-A **Type of Permit:** FILMING **Release Date:** 12/13/2019

Production Company	VIACOM INC
Insured Company Name	VIACOM INC
Contact Phone No. 1	212-846-7715
Contact Phone No. 2	323-956-5000
Fax	
Address	5555 MELROSE AVE., LOS ANGELES, California 90038
Production Title	MADE FOR LOVE
Type of Production	TV Drama

Producer	Dara Weintraub
Director	TBD TBD
1st AD	TBD TBD
Production Manager	TBD TBD
FilmL.A. Coordinator	Tara Kramer
Location Manager	Alexander Reid
Primary Phone	Mobile - 310-990-1691
Secondary Phone	Office - 213-534-7488
Location Assistant	N/A N/A
Primary Phone	Mobile - 555-555-5555
Secondary Phone	

Fees

Posting 300	$207.00
Posting 1800	$414.00
Notification Charge	$173.00
FILMLA NON-REFUNDABLE FILM PERMIT RIDER FEE	$111.00
LA CITY FIRE SAFETY OFFICER	$6,480.00

Total Permit Fee $7,385.00

Number of Locations 1

NOT A PERMIT

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Summary Information — Location

Permit Number F00159558-A
Production Company VIACOM INC
Insured Company VIACOM INC
Production Title MADE FOR LOVE

Location Manager Alexander Reid
Primary Phone Mobile - 310-990-1691
Secondary Phone Office - 213-534-7488

Location Address 3337 Oakdell Rd, Los Angeles, CA, 91604
Location Type Private Residence
Prep Dates 12/13/2019 - 12/13/2019 07:00 - 19:00 1 day
Film Dates 12/16/2019 - 12/18/2019 05:00 - 23:59 3 days
Strike Dates 12/19/2019 - 12/19/2019 07:00 - 19:00
Open or Closed to the Public Closed

Generic Conditions
THE CONSUMPTION OF ALCOHOLIC BEVERAGES AND THE USE OF DRUGS, INCLUDING MARIJUANA, ON LOCATION BY ANY CAST, CREW, OR INVITED GUESTS IS STRICTLY PROHIBITED.
*Certain service and personnel fees required by jurisdictional agencies are not collected by FilmL.A. Any such fees must be paid directly to the appropriate agency, and a separate invoice will be provided to the permittee.
*LAFD UFSO: Company must contact FilmL.A. for extension of the Uniformed Fire Safety Officers' hours. During normal business hours, UFSO must also inform the LAFD Film desk of the extension.
Community Survey Obtained
CROSSOVERS/CABLING ACROSS STREET I: Not allowed on street without prior approval.
Equipment staging and vehicles may park on one side of the street only.
FAA (UAS): Failure to adhere to any applicable limitations of UAS usage will result in immediate shutdown of UAS activity
FAA (UAS): Production company must notify Air Operations for LAPD (213-485-2600) and LAFD (818-756-8635) at least 1/2 hour prior to activity.
FAA (UAS): UAS may not be operated directly over any person, unless authorized by FAA
FAA (UAS): UAS must be operated at an altitude of no more than 400' above ground level
FAA (UAS): UAS operations may not be conducted during night (1/2 hour prior to sunrise, 1/2 hour after sunset).
FAA (UAS): UAS Operator must conform with all FAA Regulations
FAA: Company must notify Air Operations for LAPD (213-485-2600) and LAFD (818-756-8635) at least 1/2 hour prior to activity.
Must Maintain 5' Clearance on Sidewalks/Walkways
Must maintain local/emergency access
No cast or crew parking on area streets
No interference with merchant activity.
Number of uniformed officers listed on the permit is a minimum requirement. Permittee remains responsible for deploying a sufficient number of uniformed officers to provide traffic and crowd control to ensure the safety of the film crew and the public.
Traffic control must be done in accordance w/MUTCD
Traffic Officers Required
Uniformed officers shall have a copy of the film permit in their possession and are required to confirm that all traffic control signage devices are in place.

Please see attached document DRONE OAKDELL.pdf

Equipment on Location

Type	Quantity
5 or 10 ton trucks	4
Cast/Crew vehicles	80
Cube Trucks	4

Personnel on Location

Type	Quantity
Cast	10
Crew	80
LA City UFSO assigned	46621

NOT A PERMIT

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Summary Information — Location

Permit Number F00159558-A
Production Company VIACOM INC
Insured Company VIACOM INC
Production Title MADE FOR LOVE

Location Manager Alexander Reid
Primary Phone Mobile - 310-990-1691
Secondary Phone Office - 213-534-7488

Generator	1
Motor Homes	2
Stakebed Trucks	2
Trailers	6
Vans	4

Off-Duty/Retired LAPD Officer(s)	2

Filming Activities Aerial Photography with remote control aircraft. (UAS); Atmospheric smoke effects (water based); Interior and exterior dialogue; Intermittent pedestrian control; Intermittent traffic control - 2 minutes standard; actor smoking; additional prep date: 12/14, 0800-1800; actor swimming in pool ; window popper squibs on 12/18; heating pool; drone on 12/16;

Jurisdiction **Political:** Los Angeles City - Council District 02 **Police:** Los Angeles Police **Fire:** Los Angeles City Department

Thomas Guide Page: 562 **Grid:** H7

Approvals

LOS ANGELES CITY FIRE DEPARTMENT - FILM UNIT	Hamza Khan
LOS ANGELES CITY POLICE DEPARTMENT	Melissa Hernandez

Coordinator Note UFSO REQUIRED:
12/16, 0500- 2359 HRS.
12/17, 0500- 2359 HRS.
12/18, 0500- 2359 HRS.

Coordinator Note RIDER A - RELEASES LOCATION.

Parking

Base Camp	CBS - RADFORD STUDIOS
Location Type : Other Location	4024 Radford Ave, Studio City, CA, 91604
Crew Parking	CBS - RADFORD STUDIOS
Location Type : Other Location	4024 Radford Ave, Studio City, CA, 91604

Posting "No Parking" signs W/S OAKDELL RD, 3337 OAKDELL RD - 100' NORTH & 100' SOUTH
Approximate Footage 0 - 300 **Log Number** 265725
Date(s) 12/12/2019 to 12/13/2019 **Time(s)** 07:00 to 19:00

Posting "No Parking" signs B/S OAKDELL RD, LAUREL CANYON BLVD - 600' SOUTH
B/S EL CERRO LN, OAKDELL RD - 300' EAST
Approximate Footage 1501 - 1800 **Log Number** 265726
Date(s) 12/16/2019 to 12/18/2019 **Time(s)** 00:00 to 00:00

Posting "No Parking" signs W/S OAKDELL RD, 3337 OAKDELL RD - 100' NORTH & 100' SOUTH
Approximate Footage 0 - 300 **Log Number** 265728
Date(s) 12/19/2019 to 12/19/2019 **Time(s)** 07:00 to 19:00

Posting "No Parking" signs W/S OAKDELL RD, 3337 OAKDELL RD - 100' NORTH & 100' SOUTH
Approximate Footage 0 - 300 **Log Number** 265973
Date(s) 12/14/2019 to 12/14/2019 **Time(s)** 07:00 to 19:00

NOT A PERMIT

UAS QUESTIONNAIRE

(FOR MORE THAN 2 LOCATIONS, PLEASE USE AN ADDITIONAL FORM)

FilmL.A. Permit #: F00159558

Film Date: December 16, 2019

Production Title: Made for Love

Production Company: Paramount Pictures TV

Hours of UAS Activity: 6am - 5pm

Location Address: 3337 Oakdell Road

Hours of UAS Activity:

Location Address #2: Studio City, CA 91604

UAS Company Name: Astraeus Aerial, LLC

UAS ON LOCATION INFORMATION

UAS Make & Model: Freefly Alta 8

UAS "N" # or registration #: FA3LC9AKFA

UAS Make & Model: Freefly Alta 8

UAS "N" # or registration #: FA3R9A4FAX

Class of Airspace that activity will occur in: ☐ B ■ C ☐ D ☐ E ☐ G

REMINDER: IF YOU ARE FLYING IN CLASS B, C, D, OR E AIRSPACE, ATC AUTHORIZATION IS REQUIRED FOR ALL UAS ACTIVITY.

UAS PILOT WILL BE OPERATING UNDER: ☐ 333 EXEMPTION ■ PART 107

333 EXEMPTION REQUIREMENTS

Name of Pilot in Command:

Pilot's Phone #:

Name of Visual Observer:

Visual Observer's Phone #:

PLEASE PROVIDE THE FOLLOWING:

- Copy of COA or Blanket COA
- Copy of POA with proof of submission to local FSDO
- Copy of Pilot's License

PART 107 REQUIREMENTS

Name of Remote Pilot: Corey Gineris

Certificate #: 3927618

Remote Pilot Phone #: 562-686-3839

Visual Observer: ■ YES ☐ NO

PLEASE PROVIDE THE FOLLOWING:

- Copy of Remote Pilot's Certificate
- Copy of UAS Registration Certificate for each UAS listed above
- Description of Planned Operations

WAIVERS

If you are requesting any of the following activity, please check all that apply and furnish proof of waiver from the FAA upon submission of this document to FilmL.A.

☐ Flight over non-participants (§107.39)
☐ Flight altitude restrictions (§107.51)
☐ Night Flight (§107.29)
☐ Operating from a moving vehicle (§107.25)
☐ Operating multiple small UAS' (§107.35)

FILMLA. USE ONLY

333 EXEMPTION

☐ INSURANCE
☐ PILOT'S LICENSE
☐ COA
☐ POA
☐ 315 TO LAFD
☐ VISUAL OBSERVER

PART 107 CERTIFICATE

☐ INSURANCE
☐ 315 TO LAFD
☐ REMOTE PILOT CERTIFICATE
☐ UAS REGISTRATION CERTIFICATE(S)
☐ WAIVERS
☐ DESCRIPTION OF OPS.
☐ ATC COORDINATOR NOTE

NOT A PERMIT

ASTRAEUS
AERIAL CINEMA SYSTEM

PLAN OF ACTIVITY

For Part 107 sUAS Image-Capture Operations

Prepared By: Hal Winer – Director of Operations Phone: 914-523-6044

PRODUCTION, EPISODE/NUMBER:
Made For Love

PRODUCTION COMPANY, **CONTACT**:
Made For Love - Paramount Pictures TV, Jeff Gutkin - Production Coordinator, 213-534-3989

DATES AND TIMES OF OPERATION:
12/16/19 6am - 5pm (Daylight Hours Only)

MAKE, MODEL, AND REGISTRATION NUMBER OF UAS(S) TO BE USED:
Freefly Alta 8, FA3LC9AKFA (A) & FA3R9A4FAX (B)

REMOTE PILOT(S):
Corey Gineris, Remote Pilot certificate #3927618

VISUAL OBSERVER/ON-SCENE FLIGHT CREW CONTACT:
Travis Samson (206) 604-2212

LOCATION 1: 3337 Oakdell Road Studio City, CA 91604		**LOCATION 2:**		**LOCATION 3:**	
LAT/LONG: 34°07'54.1"N 118°23'26.1"W	**OPS RADIUS:** .25 NM	**LAT/LONG:**	**OPS RADIUS:**	**LAT/LONG:**	**OPS RADIUS:**
ELEVATION:	**ALTITUDES:** Surface to 400' AGL	**ELEVATION:**	**ALTITUDES:**	**ELEVATION:**	**ALTITUDES:**
NEAREST AIRPORT: **BUR**		**NEAREST AIRPORT:**		**NEAREST AIRPORT:**	

NOT A PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM

AIRSPACE:
B □ **C** ☒ **D** □ **E** □ **G** □

AIRSPACE AUTHORIZATION (Part 107.41):
None required □ **Number:** BUR 2019-P107-WSA-06991, attached

CERTIFICATE OF WAIVER
None required □ **Number:** 107W-2016-00601A, attached

PROHIBITED OR RESTRICTED AIRSPACE
No ☒ **Authorized by:** **Contact info:**

DESCRIPTION OF TERRAIN (boundaries, natural barriers, critical/sensitive features):

Suburban area, trees, pool, residential homes. Backyard shot over pool.

LOCATION MANAGER, CONTACT INFO:	**OWNER OR SITE REPRESENTATIVE:**
Adam Keller - 818-515-8919	

DESCRIPTION OF SHOTS/SHOT LIST:

Vertical lift shot over residential pool with camera looking straight down. No horizontal movement. No direct overflight of people.

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ASTRAEUS
AERIAL CINEMA SYSTEM

SAFETY AND SECURITY PLAN:
This filming location will be closed to non-participants, and UAS operations will take place within a safety perimeter controlled by production and security personnel, with appropriate road closures and/or ITC. Flight operations will be suspended immediately if non-participants enter the safety perimeter, or if any other condition jeopardizes safety of flight. As specified in Part 107.39: operations will only take place over people if they are "located under a covered structure" or inside a "vehicle that can provide reasonable protection from a falling small unmanned aircraft."

Class ABC fire extinguishers will be available at all times.

Per the standard established in Astraeus Aerial's Section 333 *Motion Picture and Television Operations Manual*, flight crew will maintain the following:

- Non-essential production personnel will remain a minimum of 100' from flight operations.
- Essential production personnel MAY be permitted less than 100' from flight operations, upon acknowledgement of the risks involved, and only at the discretion of the Flight Crew.

PRIOR TO UAS OPERATIONS, FLIGHT CREW MUST BRIEF ALL PERSONNEL WHO WILL BE ON SET.

COMMUNICATIONS:
Voice: between PIC and Visual Observer
Radio, Primary Channel: duplex radio intercom used as necessary by Astraeus Aerial personnel
Radio, Secondary Channel: per production

PERSON RESPONSIBLE FOR SAFETY PERIMETER:
1st AD - Chip Signore 917.576.1768 chipsignore@gmail.com

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ASTRAEUS
AERIAL CINEMA SYSTEM

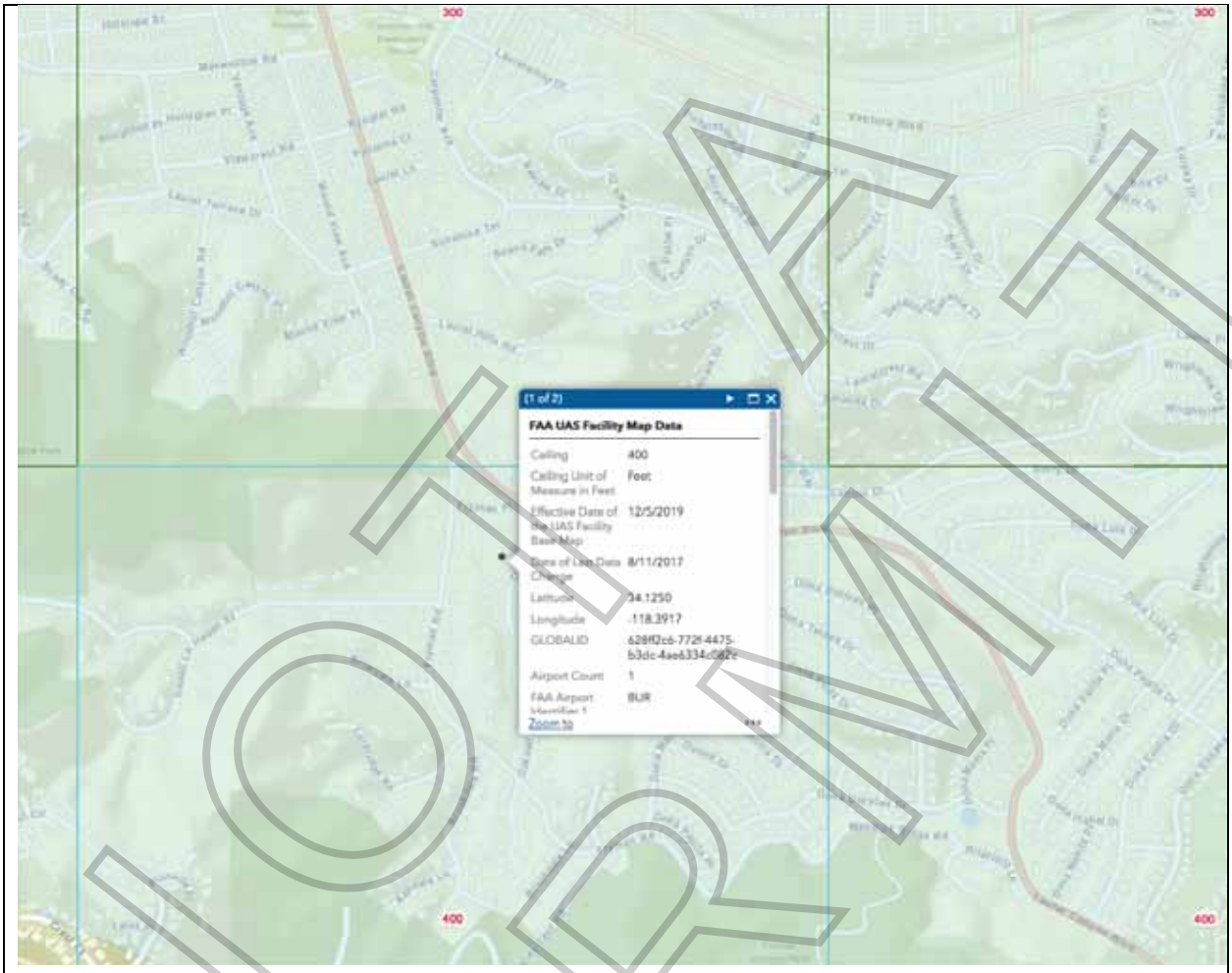
LOCATION MAPS / DIAGRAMS

PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM

LOCATION MAPS / DIAGRAMS



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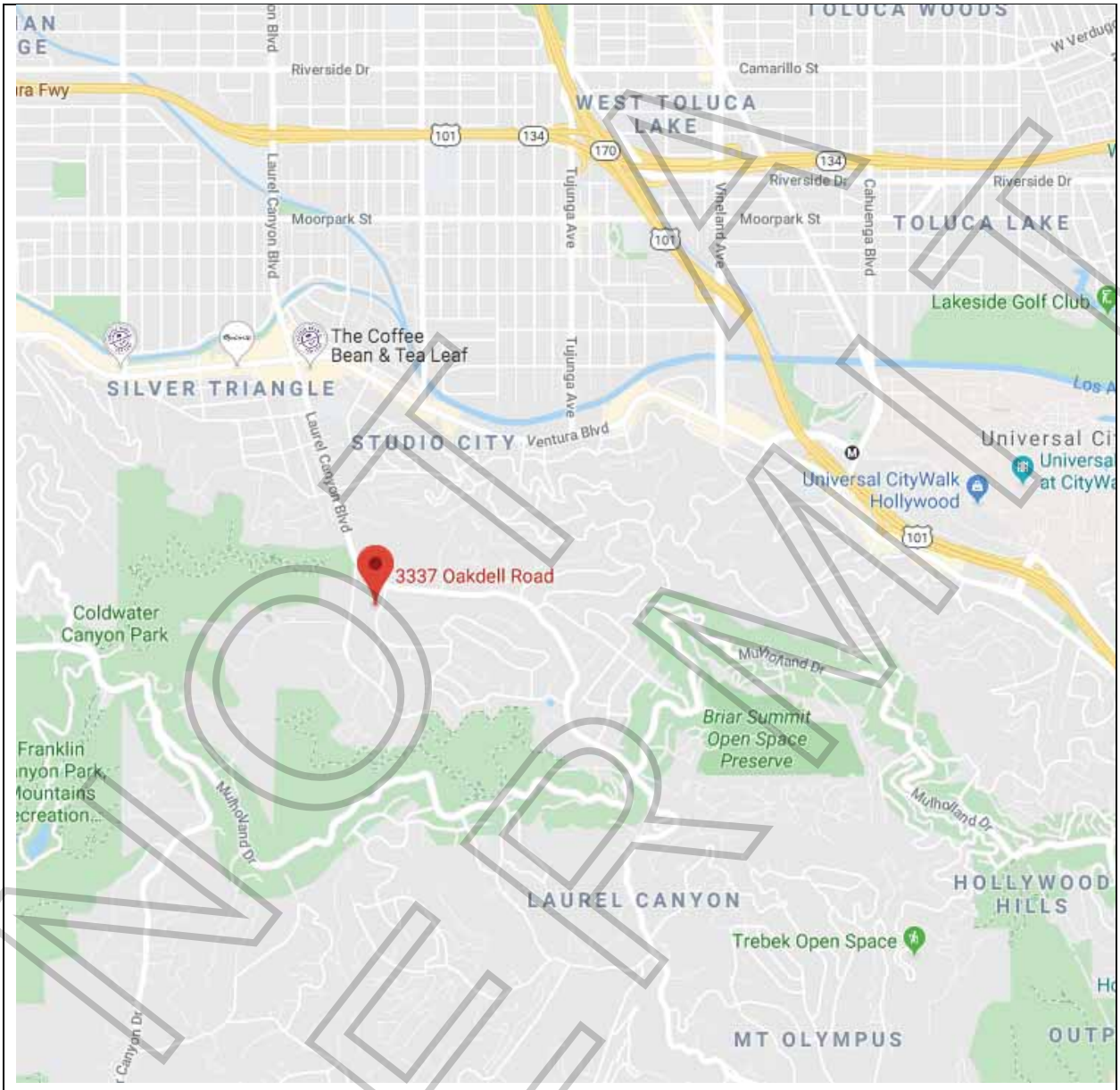
ASTRAEUS
AERIAL CINEMA SYSTEM

LOCATION MAPS / DIAGRAMS



NO PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

ASTRAEUS
AERIAL CINEMA SYSTEM

LOCATION MAPS / DIAGRAMS

NOT A PERMIT

2708 Wilshire Blvd., Ste. 383 Santa Monica, CA 90403 (310) 907-9205

I UNITED STATES OF AMERICA XI
DEPARTMENT OF TRANSPORTATION • FEDERAL AVIATION ADMINISTRATION
IV NAME
COREY MICHAEL GINERIS
V ADDRESS 29960 MAMMOTH LN
SANTA CLARITA CA 91387-6232
U
VI NATIONALITY USA
IV DOB 16 AUG 1994
SEX M
HEIGHT 69
WEIGHT 185
HAIR BROWN
EYES BROWN
A
REMOTE PILOT
CERTIFICATE NUMBER 3927618
DATE OF ISSUE 11 OCT 2016
S
XIV
VIII ADMINISTRATOR

NOT A PERMIT

Certificate of Achievement

This is to certify that

Corey Michael Gineris

has successfully completed the

FAA Safety Team Aviation Learning Center Online Course

Part 107 Small Unmanned Aircraft Systems (Small Uas) Recurrent

Course Number ALC-515

Presented by Online Courses

January 11, 2019

Federal Aviation Administration

Certificate Number 0854640-20190111-00515

Valerie G. Palazzolo

Valerie G Palazzolo, National Manager, FAA Safety Team

PENDING PERMIT

Permit #F00159558-A

Certificate of Achievement

This is to certify that

Corey Michael Gineris

has successfully completed the
FAA Safety Team Aviation Learning Center Online Course

Part 107 Small Unmanned Aircraft Systems (Small Uas) Recurrent
Course Number ALC-515
Presented by Online Courses
January 11, 2019

Federal Aviation Administration

Certificate Number 0854640-20190111-00515

Valerie G Palazzolo, National Manager, FAA Safety Team

PENDING PERMIT

Cut out the small certificate above and keep with your airman certificate. You should keep the remainder of this sheet in a safe place in case you lose your certificate above.

Your Name	Corey Michael Gineris
Your faasafety.gov Registered Username	coreygineris@gmail.com
Course Completed	Part 107 Small Unmanned Aircraft Systems (Small Uas) Recurrent
Course Completion Date	January 11, 2019
Course Completion Certificate Number	0854640-20190111-00515

Permit #F00159558-A

Small UAS Certificate of Registration

Name: Astraeus Aerial LLC

Manufacturer: Freefly

Model: Alta 8

Serial Number: 709915

Certificate Number: FA3LC9AKFA

Issued: 07/27/2018 Expires: 07/27/2021

A

For U.S. citizens, permanent residents, and certain non-citizen U.S. corporations, this document constitutes a Certificate of Registration. For all others, this document represents a recognition of ownership.

For all holders, for all operations other than as a model aircraft under sec. 336 of Pub. L. 112-95, additional safety authority from FAA and economic authority from DOT may be required.

This Small UAS Certificate of Registration is not an authorization to conduct flight operations with an unmanned aircraft. Operations must be conducted in accordance with the applicable FAA requirements. The operator of the aircraft is responsible for knowing and understanding what those requirements are. For more information on flying for non-model purposes, please visit the FAA website at www.faa.gov/uas

Alta A - AAA08A

Federal Aviation Administration

Small UAS Certificate of Registration

Name: Astraeus Aerial LLC

Manufacturer: Freefly

Model: Alta 8

Serial Number: 447474

Certificate Number: FA3R9A4FAX

Issued: 08/14/2018 Expires: 08/14/2021

B

For U.S. citizens, permanent residents, and certain non-citizen U.S. corporations, this document constitutes a Certificate of Registration. For all others, this document represents a recognition of ownership.

For all holders, for all operations other than as a model aircraft under sec. 336 of Pub. L. 112-95, additional safety authority from FAA and economic authority from DOT may be required.

This Small UAS Certificate of Registration is not an authorization to conduct flight operations with an unmanned aircraft. Operations must be conducted in accordance with the applicable FAA requirements. The operator of the aircraft is responsible for knowing and understanding what those requirements are. For more information on flying for non-model purposes, please visit the FAA website at www.faa.gov/uas

Alta B - AAA08B

Federal Aviation Administration

FOR REMITA

Permit #F00159558-A

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO: Astraeus Aerial LLC

POC PHONE NUMBER: 310-907-9205

ATTN: Hal Winer

This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED

Operations under this certificate of authorization are limited to the maximum altitude listed below. This altitude is an absolute value and it shall not be added to the height of any structures.

Class of Airspace: **C** Night Waiver: **107W-2016-00601D**

At or Below: Altitudes in accordance with published Unmanned Aircraft System (UAS) Facility Map (UASFM)

Under the Jurisdiction of: Burbank Airport Traffic Control Tower (ATCT)

Airport Identifier: Bob Hope/ **KBUR**

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

N/A

STANDARD PROVISIONS

1. A copy of the application made for this certificate shall be attached and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE - This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above. It does not constitute a waiver of any State law or local ordinance.

SPECIAL PROVISIONS

Special Provisions 1 to 3, inclusive, are set forth in this authorization.

This certificate 2019-P107-WSA-06991 is effective from May 23, 2019 to September 30, 2020, and is subject to cancellation at any time upon notice by the Administrator or his/her authorized representative.

BY DIRECTION OF THE ADMINISTRATOR

FAA Western Service Area
(Region)

May 22, 2019
(Date)

B. G. Chew
(Signature)

Tactical Operations Manager (AJV-W23)
(Title)

NOT A PERMIT

FAA Form 7711-1 (7-74)

SPECIAL PROVISIONS

1. CONTACT INFORMATION:

a. Hal Winer is the person designated as responsible for the overall safety of UAS operations under this Certificate of Waiver or Authorization (COA). During UAS operations for on-site communication/recall, the Responsible Person shall be continuously available for direct contact at 310-907-9205 by KBUR ATCT or designated representative.

b. The Responsible Person listed on this Authorization must maintain a current list of pilots by name and the remote pilot certificate number(s) associated with the Authorization holder's operation. This list must be presented for inspection upon request from the Administrator or an authorized representative.

2. SCHEDULE OF FLIGHT OPERATIONS:

a. Night operations authorized at the altitude stated in this authorization and in accordance with Special Provisions established in 14 CFR § 107.29 Daylight operation waiver [107W-2016-00601D].

b. This airspace authorization does not relieve the remote pilots from the responsibility to check the airspace they are operating in and comply with all restrictions that may be present in accordance with see 14 CFR 107.45 and 107.49 (a)(2), such as restricted and Prohibited Airspace, Temporary Flight Restrictions, etc.

c. The facility may disapprove, terminate, restrict, or delay UAS flight operations covered by this authorization at any time.

d. The operator is responsible for reviewing the published UASFM at http://uas-faa.opendata.arcgis.com/ and scroll down and open the "Visualize It" section prior to each flight to ensure that no changes have been made to the map (i.e., altitude changes, airspace modifications, etc). If you need to operate at an altitude that is not in accordance with the published UASFM, you must apply for a new authorization requesting that altitude.

3. EMERGENCY/CONTINGENCY PROCEDURES - Lost Link/Lost Communications Procedures:

a. If the UAS loses communications or loses its Global Positioning System (GPS) signal, the Unmanned Aircraft (UA) must return to a pre-determined location within the operating area and land.

b. The Pilot In Command (PIC) must abort the flight in the event of unpredicted obstacles or emergencies.

NOT A PERMIT

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

CERTIFICATE OF WAIVER OR AUTHORIZATION

ISSUED TO

Astraeus Aerial
Responsible Person: David Wagreich
Waiver Number: 107W-2016-00601D

ADDRESS –

2708 Wilshire Blvd., Ste. 383
Santa Monica, CA 90403

This certificate is issued for the operations specifically described hereinafter. No person shall conduct any operation pursuant to the authority of this certificate except in accordance with the standard and special provisions contained in this certificate, and such other requirements of the Federal Aviation Regulations not specifically waived by this certificate.

OPERATIONS AUTHORIZED

Night small Unmanned Aircraft System (sUAS) operations, first person view in lieu of visual line of sight operations by the remote pilot in command, and operating more than one sUAS at the same time.

LIST OF WAIVED REGULATIONS BY SECTION AND TITLE

14 CFR § 107.29 Daylight operation
14 CFR § 107.31 Visual line of sight operations
14 CFR § 107.35 Operation of multiple small unmanned aircraft

STANDARD PROVISIONS

1. A copy of the application made for this certificate shall be attached to and become a part hereof.
2. This certificate shall be presented for inspection upon the request of any authorized representative of the Administrator of the Federal Aviation Administration, or of any State or municipal official charged with the duty of enforcing local laws or regulations.
3. The holder of this certificate shall be responsible for the strict observance of the terms and provisions contained herein.
4. This certificate is nontransferable.

NOTE—This certificate constitutes a waiver of those Federal rules or regulations specifically referred to above. It does not constitute a waiver of any State law or local ordinance.

SPECIAL PROVISIONS

Special Provisions Nos. 1 to 24, inclusive, are set forth on the attached pages.

This Certificate of Waiver is effective from January 05, 2017 to August 31, 2021 and is subject to cancellation at any time upon notice by the Administrator or an authorized representative.

BY DIRECTION OF THE ADMINISTRATOR

General Aviation and Commercial Division, AFS-800

NOT A PERMIT

FAA Form 7711-1 (7-74) CC:

SPECIAL PROVISIONS ISSUED TO
Astraeus Aerial

General.

This Certificate of Waiver is an amendment which supersedes and replaces Waiver 107W-2016-00601C issued to Astraeus Aerial for operations under 14 CFR 107. Waivers 107W-2017-00901C, 107W-2016-00601B, 107W-2016-00601A, and 107W-2016-00601 are no longer valid.

The FAA's Flight Standards Service has reviewed your application to ensure compliance with the requirements of 14 CFR § 107.200. The Administrator finds that the proposed sUAS operation can be conducted safely under the provisions of this Certificate of Waiver (Waiver) as listed below, because you have established adequate mitigations for risks involved with operating your sUAS in the manner you described. Adherence to the provisions of this Waiver establishes the required level of safety within the national airspace system.

This Waiver may be canceled at any time by the Administrator, the person authorized to grant the Waiver, or the representative designated to monitor a specific operation. As a general rule, this Waiver may be canceled when it is no longer required, there is an abuse of its provisions, or when unforeseen safety factors develop. Failure to comply with any provision listed below is a violation of the terms of this Waiver and may serve as justification for cancellation.

List of Regulations Waived by Section and Title. The following regulations are waived:

14 CFR § 107.29, Daylight operation, is waived to allow sUAS operations during night.

14 CFR § 107.31, Visual line of sight aircraft operation is waived to the extent necessary to allow the remote pilot in command (PIC) to operate the small unmanned aircraft (sUA) with first person view (FPV), in lieu of visual line of sight, while a second remote pilot, who holds a valid remote pilot certificate under part 107, acts as Visual Observer (VO), and exercises the ability to see the sUA throughout the entire flight.

14 CFR § 107.35 Operation of multiple small unmanned aircraft.

Common Provisions. The Responsible Person is directly responsible for safety of operations conducted under this Waiver and will ensure the remote PIC, manipulator of the controls, and VO complies with all provisions of this Waiver.

1. The Responsible Person listed on the Waiver is responsible to the FAA for the safe conduct of the operations. Prior to conducting operations that are the subject of this Waiver, the responsible person:
   a. Must ensure the remote PIC, manipulators of the controls, and VO are informed on the terms and provisions of this waiver and the strict observance of the terms and provisions herein;
   b. Must ensure the remote PIC, manipulators of the controls, and VO are informed and familiar with part 107 regulations not waived; and
   c. The above must be documented and must be presented for inspection upon request from the Administrator or an authorized representative.

NOT A PERMIT

2. This Waiver must not be combined with any other waiver(s), authorizations(s), or exemption(s) without specific authorization from the FAA;

3. The FAA has the authority to cancel or delay any or all flight operations if the safety of persons or property on the ground or in the air, are in jeopardy or there is a violation of the terms of this Waiver;

4. Operations under this Waiver are to be conducted in Class G airspace only unless specific airspace authorization or Waiver is received from the FAA in accordance with § 107.41;

5. A copy of this Waiver must be available during sUAS operations that are the subject of this Waiver;

6. The Responsible Person listed on this Waiver must maintain a current list of pilots by name and remote pilot certificate number used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;

7. The Responsible Person listed on this Waiver must maintain a current list of small unmanned aircraft (sUA) by registration number(s) used in the Waiver holder's operations. This list must be presented for inspection upon request from the Administrator or an authorized representative;

8. All operations under this Waiver must use one or more VO;

Night sUAS Operations Special Provisions. sUAS operations may be conducted at night, as defined in 14 CFR § 1.1, provided:

9. As described in the Waiver application, the remote PIC and VO must be trained, to recognize and overcome visual illusions caused by darkness, and understand physiological conditions which may degrade night vision prior to conducting operations that are the subject of this Waiver. This training must be documented and must be presented for inspection upon request from the Administrator or an authorized representative;

10. The area of operation must be sufficiently illuminated to allow both the remote PIC and VO to identify people or obstacles on the ground, or the remote PIC and VO must conduct a daytime site assessment prior to conducting operations that are the subject of this Waiver, noting any hazards or obstructions;

11. The sUA must be equipped with lighted anti-collision lighting visible from a distance of no less than 3 statute miles. The intensity of the anti-collision lighting may be reduced if, because of operating conditions, it would be in the interest of safety to do so;

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Visual Line of Sight Operations Special Provisions. sUAS operations may be conducted with the remote pilot in command using FPV, in lieu of visual line of sight, provided:

12. At all times, at least one person who holds a remote pilot certificate under part 107 must maintain visual line of sight (VLOS) of the sUA in order to (1) know the sUA's location, (2) determine the sUA's attitude, altitude and direction of flight, (3) observe the airspace for other air traffic or hazards and (4) determine that the sUA does not endanger the life or property of another. The remote pilot maintaining VLOS may act as a required VO while the remote PIC, located within the base station vehicle, uses FPV while manipulating the controls, in lieu of VLOS, to operate the sUA;

13. Communication between the remote PIC and the remote pilot maintaining VLOS, acting as a VO, must allow for the remote PIC to maneuver the sUA with sufficient time to perform necessary maneuvers to avoid other aircraft in accordance with § 107.37, or react to any unforeseen operational or mechanical failure;

14. As described in the waiver application, operations that are the subject of this Waiver must remain within VLOS of the remote pilot, acting as VO, at all times while the remote PIC, located within the base station vehicle, uses FPV while manipulating the controls, in lieu of VLOS, to operate the sUA;

15. As described in the waiver application, prior to and during operations that are the subject of this Waiver, the "override" feature of the sUA must operate properly so that the remote pilot, acting as VO, has continuous control and override capability of the sUA while the remote PIC operates the sUA using FPV;

16. As described in the waiver application, prior to conducting operations that are the subject of this Waiver, the remote PIC and the remote pilot acting as VO must maintain continuous full-duplex voice communication;

17. As described in the waiver application, the remote PIC must fulfill the requirements of § 107.15(a) for all components of the sUAS;

18. All sUA operations conducted in accordance with this Waiver must comply with the manufacturer User Manual, including recommendations and limitations;

Operation of Multiple sUAS Special Provisions. sUAS operations with multiple sUA may be conducted, provided:

19. Prior to conducting operations that are the subject of this Waiver, operational area obstacles and boundaries must be identified so as to avoid collision with, or damage to property;

20. An individual system failure must not interfere with the operation of any other sUA or cause incidents, accidents, or loss of control involving any other sUA that are subject to this Waiver;

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21. As described in the waiver application, operations are only permitted within a location closed to the general public, with a secured perimeter;

22. As described in the waiver application, operations using multiple sUA are limited to not more than 6 sUA at a time and will not exceed 30 knots groundspeed (35 mph);

23. As described in the waiver application, prior to conducting operations that are the subject of this Waiver, the flight controller and the associated flight control system capability for each aircraft, operate properly; and

24. Not less than 24 hours prior to conducting operations that are the subject of this Waiver, a Notice to Airmen (NOTAM) must be filed. The NOTAM must include location, altitude, and/or operating area, time and nature of the activity, and number of sUA flying in the operating area.

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